

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/373658

CRF Processing Date: 01/21/99
 Edited by: Ch
 Verified by: Ch (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: T-4
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: ENTERED
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☒ Corrected an obvious error in the response, specifically: Seq 95 - deleted "C" from "CDNA" in (212) response
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/373,658

DATE: 09/01/1999
TIME: 14:09:21

Input Set: I373658.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

P.5

1 <110> APPLICANT: Iruela-Arispe, Luisa
2 Hastings, Gregg A.
3 Ruben, Steven M.
4 Jonak, Zdenka L.
5 Trulli, Stephen H.
6 Fronwald, James A.
7 Terrett, Jonathan A.
8 <120> TITLE OF INVENTION: Meth1 and Meth2 Polynucleotides and Polypeptides
9 <130> FILE REFERENCE: 1488.1070006
10 <140> CURRENT APPLICATION NUMBER: US/09/373,658
11 <141> CURRENT FILING DATE: 1999-08-13
12 <160> NUMBER OF SEQ ID NOS: 125
13 <170> SOFTWARE: PatentIn Ver. 2.0
14 <210> SEQ ID NO 1
15 <211> LENGTH: 3261
16 <212> TYPE: DNA
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20 <222> LOCATION: (1)..(2853)
21 <220> FEATURE:
22 <221> NAME/KEY: UNSURE
23 <222> LOCATION: (3095)
24 <223> OTHER INFORMATION: May be any nucleic acid
25 <220> FEATURE:
26 <221> NAME/KEY: UNSURE
27 <222> LOCATION: (3248)
28 <223> OTHER INFORMATION: May be any nucleic acid
29 <220> FEATURE:
30 <221> NAME/KEY: UNSURE
31 <222> LOCATION: (3255)
32 <223> OTHER INFORMATION: May be any nucleic acid
33 <220> FEATURE:
34 <221> NAME/KEY: UNSURE
35 <222> LOCATION: (3261)
36 <223> OTHER INFORMATION: May be any nucleic acid
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40 1 5 10 15
41 ccc acg ctg ctg ctg ctc gcc gcg gcg cta ctg gcc gtg tgg gac gca 96
42 Pro Thr Leu Leu Leu Leu Ala Ala Ala Leu Leu Ala Val Ser Asp Ala
43 20 25 30
44 ctc ggg cgc ccc tcc gag gag gac gag gag cta gtg gtg ccg gag ctg 144

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/373,658

DATE: 09/01/1999
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Input Set: I373658.RAW

45	Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu Leu	
46	35 40 45	
47	gag cgc gcc ccg gga cac ggg acc acg cgc ctc cgc ctg cac gcc ttt	192
48	Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala Phe	
49	50 55 60	
50	gac cag cag ctg gat ctg gag ctg cgg ccc gac agc agc ttt ttg gcg	240
51	Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu Ala	
52	65 70 75 80	
53	ccc ggc ttc acg ctc cag aac gtg ggg cgc aaa tcc ggg tcc gag acg	288
54	Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu Thr	
55	85 90 95	
56	ccg ctt ccg gaa acc gac ctg gcg cac tgc ttc tac tcc ggc acc gtg	336
57	Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr Val	
58	100 105 110	
59	aat ggc gat ccc agc tcg gct gcc gcc ctc agc ctc tgc gag ggc gtg	384
60	Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly Val	
61	115 120 125	
62	cgc ggc gcc ttc tac ctg ctg ggg gag gcg tat ttc atc cag ccg ctg	432
63	Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro Leu	
64	130 135 140	
65	ccc gcc gcc agc gag cgc ctc gcc acc gcc gcc cca ggg gag aag ccg	480
66	Pro Ala Ala Ser Glu Arg Leu Ala Thr Ala Ala Pro Gly Glu Lys Pro	
67	145 150 155 160	
68	ccg gca cca cta cag ttc cac ctc ctg cgg cgg aat cgg cag ggc gac	528
69	Pro Ala Pro Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly Asp	
70	165 170 175	
71	gta ggc ggc acg tgc ggg gtc gtg gac gag gag ccc cgg ccg act ggg	576
72	Val Gly Gly Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr Gly	
73	180 185 190	
74	aaa gcg gag acc gaa gac gag gac gaa ggg act gag ggc gag gac gaa	624
75	Lys Ala Glu Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp Glu	
76	195 200 205	
77	ggg cct cag tgg tcg ccg cag gac ccg gca ctg caa ggc gta gga cag	672
78	Gly Pro Gln Trp Ser Pro Gln Asp Pro Ala Leu Gln Gly Val Gly Gln	
79	210 215 220	
80	ccc aca gga act gga agc ata aga aag aag cga ttt gtg tcc agt cac	720
81	Pro Thr Gly Thr Gly Ser Ile Arg Lys Lys Arg Phe Val Ser Ser His	
82	225 230 235 240	
83	cgc tat gtg gaa acc atg ctt gtg gca gac cag tcg atg gca gaa ttc	768
84	Arg Tyr Val Glu Thr Met Leu Val Ala Asp Gln Ser Met Ala Glu Phe	
85	245 250 255	
86	cac ggc agt ggt cta aag cat tac ctt ctc acg ttg ttt tcg gtg gca	816
87	His Gly Ser Gly Leu Lys His Tyr Leu Leu Thr Leu Phe Ser Val Ala	
88	260 265 270	
89	gcc aga ttg tac aaa cac ccc agc att cgt aat tca gtt agc ctg gtg	864
90	Ala Arg Leu Tyr Lys His Pro Ser Ile Arg Asn Ser Val Ser Leu Val	
91	275 280 285	
92	gtg gtg aag atc ttg gtc atc cac gat gaa cag aag ggg ccg gaa gtg	912
93	Val Val Lys Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu Val	
94	290 295 300	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/373,658

DATE: 09/01/1999
TIME: 14:09:21

Input Set: I373658.RAW

95	acc tcc aat gct gcc ctc act ctg cgg aac ttt tgc aac tgg cag aag	960
96	Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln Lys	
97	305 310 315 320	
98	cag cac aac cca ccc agt gac cgg gat gca gag cac tat gac aca gca	1008
99	Gln His Asn Pro Pro Ser Asp Arg Asp Ala Glu His Tyr Asp Thr Ala	
100	325 330 335	
101	att ctt ttc acc aga cag gac ttg tgt ggg tcc cag aca tgt gat act	1056
102	Ile Leu Phe Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp Thr	
103	340 345 350	
104	ctt ggg atg gct gat gtt gga act gtg tgt gat ccg agc aga agc tgc	1104
105	Leu Gly Met Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser Cys	
106	355 360 365	
107	tcc gtc ata gaa gat gat ggt tta caa gct gcc ttc acc aca gcc cat	1152
108	Ser Val Ile Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Ala His	
109	370 375 380	
110	gaa tta ggc cac gtg ttt aac atg cca cat gat gat gca aag cag tgt	1200
111	Glu Leu Gly His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln Cys	
112	385 390 395 400	
113	gcc agc ctt aat ggt gtg aac cag gat tcc cac atg atg gcg tca atg	1248
114	Ala Ser Leu Asn Gly Val Asn Gln Asp Ser His Met Met Ala Ser Met	
115	405 410 415	
116	ctt tcc aac ctg gac cac agc cag cct tgg tct cct tgc agt gcc tac	1296
117	Leu Ser Asn Leu Asp His Ser Gln Pro Trp Ser Pro Cys Ser Ala Tyr	
118	420 425 430	
119	atg att aca tca ttt ctg gat aat ggt cat ggg gaa tgt ttg atg gac	1344
120	Met Ile Thr Ser Phe Leu Asp Asn Gly His Gly Glu Cys Leu Met Asp	
121	435 440 445	
122	aag cct cag aat ccc ata cag ctc cca ggc gat ctc cct ggc acc tcg	1392
123	Lys Pro Gln Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr Ser	
124	450 455 460	
125	tac gat gcc aac cgg cag tgc cag ttt aca ttt ggg gag gac tcc aaa	1440
126	Tyr Asp Ala Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser Lys	
127	465 470 475 480	
128	cac tgc cct gat gca gcc agc aca tgt agc acc ttg tgg tgt acc ggc	1488
129	His Cys Pro Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr Gly	
130	485 490 495	
131	acc tct ggt ggg gtg ctg gtg tgt caa acc aaa cac ttc ccg tgg gcg	1536
132	Thr Ser Gly Gly Val Leu Val Cys Gln Thr Lys His Phe Pro Trp Ala	
133	500 505 510	
134	gat ggc acc agc tgt gga gaa ggg aaa tgg tgt atc aac ggc aag tgt	1584
135	Asp Gly Thr Ser Cys Gly Glu Gly Lys Trp Cys Ile Asn Gly Lys Cys	
136	515 520 525	
137	gtg aac aaa acc gac aga aag cat ttt gat acg cct ttt cat gga agc	1632
138	Val Asn Lys Thr Asp Arg Lys His Phe Asp Thr Pro Phe His Gly Ser	
139	530 535 540	
140	tgg gga atg tgg ggg cct tgg gga gac tgt tcg aga acg tgc ggt gga	1680
141	Trp Gly Met Trp Gly Pro Trp Gly Asp Cys Ser Arg Thr Cys Gly Gly	
142	545 550 555 560	
143	gga gtc cag tac acg atg agg gaa tgt gac aac cca gtc cca aag aat	1728
144	Gly Val Gln Tyr Thr Met Arg Glu Cys Asp Asn Pro Val Pro Lys Asn	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/373,658

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TIME: 14:09:21

Input Set: I373658.RAW

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148		580		585		590	
149	ctt gag gac	tgt cca gac aat aat	gga aaa acc ttt	aga gag gaa caa	1824		
150	Leu Glu Asp	Cys Pro Asp Asn Asn	Gly Lys Thr Phe Arg	Glu Glu Gln			
151		595		600		605	
152	tgt gaa gca	cac aac gag ttt tca	aaa gct tcc ttt	ggg agt ggg cct	1872		
153	Cys Glu Ala	His Asn Glu Phe Ser	Lys Ala Ser Phe	Gly Ser Gly Pro			
154		610		615		620	
155	gcg gtg gaa	tgg att ccc aag tac	gct ggc gtc tca	cca aag gac agg	1920		
156	Ala Val Glu	Trp Ile Pro Lys Tyr	Ala Gly Val Ser	Pro Lys Asp Arg			
157		625		630		635	640
158	tgc aag ctc	atc tgc caa gcc aaa	ggc att ggc tac ttc	ttc gtt ttg	1968		
159	Cys Lys Leu	Ile Cys Gln Ala Lys	Gly Ile Gly Tyr Phe	Phe Val Leu			
160		645		650		655	
161	cag ccc aag	gtt gta gat ggt act	cca tgt agc cca	gat tcc acc tct	2016		
162	Gln Pro Lys	Val Val Asp Gly Thr	Pro Cys Ser Pro	Asp Ser Thr Ser			
163		660		665		670	
164	gtc tgt gtg	caa gga cag tgt gta	aaa gct ggt tgt	gat cgc atc ata	2064		
165	Val Cys Val	Gln Gly Gln Cys Val	Lys Ala Gly Cys	Asp Arg Ile Ile			
166		675		680		685	
167	gac tcc aaa	aag aag ttt gat aaa	tgt ggt gtt tgc	ggg gga aat gga	2112		
168	Asp Ser Lys	Lys Lys Phe Asp Lys	Cys Gly Val Cys	Gly Gly Asn Gly			
169		690		695		700	
170	tct act tgt	aaa aaa ata tca	gga tca gtt act	agt gca aaa cct	gga	2160	
171	Ser Thr Cys	Lys Lys Ile Ser	Gly Ser Val Thr	Ser Ala Lys Pro	Gly		
172		705		710		715	720
173	tat cat gat	atc atc aca att cca	act gga gcc acc	aac atc gaa gtg	2208		
174	Tyr His Asp	Ile Ile Thr Ile Pro	Thr Gly Ala Thr	Asn Ile Glu Val			
175		725		730		735	
176	aaa cag cgg	aac cag agg gga tcc	agg aac aat ggc	agc ttt ctt gcc	2256		
177	Lys Gln Arg	Asn Gln Arg Gly Ser	Arg Asn Asn Gly	Ser Phe Leu Ala			
178		740		745		750	
179	atc aaa gct	gct gat ggc aca tat	att ctt aat ggt	gac tac act ttg	2304		
180	Ile Lys Ala	Ala Asp Gly Thr Tyr	Ile Leu Asn Gly	Asp Tyr Thr Leu			
181		755		760		765	
182	tcc acc tta	gag caa gac att atg	tac aaa ggt gtt	gtc ttg agg tac	2352		
183	Ser Thr Leu	Glu Gln Asp Ile Met	Tyr Lys Gly Val	Val Leu Arg Tyr			
184		770		775		780	
185	agc ggc tcc	tct gcg gca ttg gaa	aga att cgc agc	ttt agc cct ctc	2400		
186	Ser Gly Ser	Ser Ala Ala Leu Glu	Arg Ile Arg Ser	Phe Ser Pro Leu			
187		785		790		795	800
188	aaa gag ccc	ttg acc atc cag gtt	ctt act gtg ggc	aat gcc ctt cga	2448		
189	Lys Glu Pro	Leu Thr Ile Gln Val	Leu Thr Val Gly	Asn Ala Leu Arg			
190		805		810		815	
191	cct aaa att	aaa tac acc tac ttc	gta aag aag aag	aag gaa tct ttc	2496		
192	Pro Lys Ile	Lys Tyr Thr Tyr Phe	Val Lys Lys Lys	Lys Glu Ser Phe			
193		820		825		830	
194	aat gct atc	ccc act ttt tca gca	tgg gtc att gaa	gag tgg ggc gaa	2544		

Input Set: I373658.RAW

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195      Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly Glu
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197      tgt tct aag tca tgt gaa ttg ggt tgg cag aga aga ctg gta gaa tgc      2592
198      Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu Cys
199              850                      855                      860
200      cga gac att aat gga cag cct gct tcc gag tgt gca aag gaa gtg aag      2640
201      Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val Lys
202      865                      870                      875                      880
203      cca gcc agc acc aga cct tgt gca gac cat ccc tgc ccc cag tgg cag      2688
204      Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp Gln
205              885                      890                      895
206      ctg ggg gag tgg tca tca tgt tct aag acc tgt ggg aag ggt tac aaa      2736
207      Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr Lys
208              900                      905                      910
209      aaa aga agc ttg aag tgt ctg tcc cat gat gga ggg gtg tta tct cat      2784
210      Lys Arg Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser His
211              915                      920                      925
212      gag agc tgt gat cct tta aag aaa cct aaa cat ttc ata gac ttt tgc      2832
213      Glu Ser Cys Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe Cys
214              930                      935                      940
215      aca atg gca gaa tgc agt taa gtggtttaag tgggtgttagc tttgaggcaa      2883
216      Thr Met Ala Glu Cys Ser
217      945                      950
218      ggcaaaagtga ggaagggtctg gtgcagggaa agcaagaagg ctggaggggat ccagcgtatc 2943
219      ttgccagtaa ccagtgaagt gtatcagtaa ggtgggatta tgggggtaga tagaaaagga 3003
220      gttgaatcat cagagtaaac tgccagttgc aaatttgata ggatagttag tgaggattat 3063
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222      tgttacatct attacaagtt tagaaaaaac aaagcaattg tcaaaaaaaaaa aaaaaaaaaa 3183
223      aaaaaa aagggcggc cgctctagag gatccctcga ggggcccaag cttacgcgtg 3243
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233      20                      25                      30
234      Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu Leu
235      35                      40                      45
236      Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala Phe
237      50                      55                      60
238      Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu Ala
239      65                      70                      75                      80
240      Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu Thr
241      85                      90                      95
242      Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr Val
243      100                      105                      110
244      Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly Val

```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



Input Set: I373658.RAW

Line	?	Error/Warning	Original Text
221	W	"N" or "Xaa" used: Feature required	taacctctga gcagtgatag agcataataa anccccgg
224	W	"N" or "Xaa" used: Feature required	catgntgtca tnagtctn
545	W	"N" or "Xaa" used: Feature required	catcaactgt ccawtgnaat ggaacttgct cgggttca
546	W	"N" or "Xaa" used: Feature required	aattcattat gatcaacaga cctcacntca tctgttgc
1023	W	"N" or "Xaa" used: Feature required	gtncgaattt cggcacgaga nnttagacgc cttttcat
1029	W	"N" or "Xaa" used: Feature required	nttggctant tctttcgttt tgcagcccaa ggttggtta
1030	W	"N" or "Xaa" used: Feature required	cagattncac ctttgtctgt gtgcaaggac agtgtggt
1031	W	"N" or "Xaa" used: Feature required	cntagattcc aaaaggagtt ttgttaatgt ggtgtttt
1088	W	"N" or "Xaa" used: Feature required	aatgtggtgt ttgcggggga aatggatcta cttgtaaa
1091	W	"N" or "Xaa" used: Feature required	gctgctggat ggcacatata ttcttnaatg gtgactac
1092	W	"N" or "Xaa" used: Feature required	acattntgtg acaaagnnt tgt
1126	W	"N" or "Xaa" used: Feature required	cccacgcgtc cgcccacggt nccgggactt gtgtgggt
1131	W	"N" or "Xaa" used: Feature required	nacatggatt gacatcattt ctgggatgaa tggtncat
1132	W	"N" or "Xaa" used: Feature required	agccttcaga atnccctnac annttcccag gggttctc
1151	W	"N" or "Xaa" used: Feature required	aacttctgca actggcagcg gcgtttcaac cagcccag
1152	W	"N" or "Xaa" used: Feature required	gncacggcca tcctnctcac cagacagaaac tt
4987	W	"N" or "Xaa" used: Feature required	gcggccgcnc ggcgctggct gctgtgcgga ggccacgg
4988	W	"N" or "Xaa" used: Feature required	tcgcctcctt gccctgggtg cggccccccg ggtcccgg
5177	W	"N" or "Xaa" used: Feature required	ttctngtcta tggcagagat ggcaggttg ncgttgag
5180	W	"N" or "Xaa" used: Feature required	agggaccggg agaccttctt gcaggagttg nctttgcc
5181	W	"N" or "Xaa" used: Feature required	agcttccgag gcgagttccac cacatggtca cagccggc
5182	W	"N" or "Xaa" used: Feature required	cagatggnga gtgtttctgg ccacacagg gtgccatc
5183	W	"N" or "Xaa" used: Feature required	ttggaactcg ctctctcccc gggntcggga ggaacaac
5184	W	"N" or "Xaa" used: Feature required	aaccagcat tcttggggga cccactgcag gaggattc
5185	W	"N" or "Xaa" used: Feature required	ggtgggcatt attcttctca caattgntgc tccctgaa
5186	W	"N" or "Xaa" used: Feature required	tccccccng ntggaatnat tggtaacttg gtctccga
5202	W	"N" or "Xaa" used: Feature required	ctggacangt tgatgatagg gtctgncgcc ccataccc
5236	W	"N" or "Xaa" used: Feature required	ccgctgctcc acgcacagtg gntgctgggg gactggtc
5239	W	"N" or "Xaa" used: Feature required	gtgatttcag ggggncaggg gccattttgt gctcnggg
5240	W	"N" or "Xaa" used: Feature required	agacaaggtc ttncattgtg gtgnatgggt tcc
5265	W	"N" or "Xaa" used: Feature required	cntnctggna nnaaaaaatc gcggcagcag ctgctcta
5297	W	"N" or "Xaa" used: Feature required	caggcaagnc ggcacgtagg agcagcagca gcagcagc
5298	W	"N" or "Xaa" used: Feature required	aggggnggcc cgggacccaa ggcgcccga cagagagg
5299	W	"N" or "Xaa" used: Feature required	cgn
5328	W	"N" or "Xaa" used: Feature required	agagagcagc agagcagagc agagcanagt agagnaga
5367	W	"N" or "Xaa" used: Feature required	gtccggggcc ggccgggcat ggattnaatg cctgagcc
5368	W	"N" or "Xaa" used: Feature required	cttcccttgc tgctgctgct gctgctgctg ctgccggc
5369	W	"N" or "Xaa" used: Feature required	gccnagctg aggagaacga cttgggttng cctnccca
5370	W	"N" or "Xaa" used: Feature required	ttaatcgaag tcattgggac cattttaaaa ggggcttc
5416	W	"N" or "Xaa" used: Feature required	tgatgtctc agaagtgttt gccctctgc tttcgtct
5417	W	"N" or "Xaa" used: Feature required	gattatatct acaacctgga cgagagtga ggtgtttg
5418	W	"N" or "Xaa" used: Feature required	tntnaacntt tgactgacag ggacatgcct tttttggt
5419	W	"N" or "Xaa" used: Feature required	gggggtttnc ttgggacttt tcaaccgacc ctanagag
5460	W	"N" or "Xaa" used: Feature required	gggggtggtg ttatgancag cagtctgtca cagctcag
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5463	W	"N" or "Xaa" used: Feature required	gaactcactt cctcttcctc ctgctgncac ctgtcttt
5464	W	"N" or "Xaa" used: Feature required	ggggcccaga tggagccttg ctccntgant tatgatag
5556	W	"N" or "Xaa" used: Feature required	cagaggtgca gctgaaggag gaatctgctg ctgctgct
5559	W	"N" or "Xaa" used: Feature required	ccggagttcc ttccttgctt tnaggggntt ttcagcaa

Input Set: I373658.RAW

Line	Error/Warning	Original Text
5560	W "N" or "Xaa" used: Feature required	tgggaaantt naggnagttt aaggantacc aggttntt
5561	W "N" or "Xaa" used: Feature required	ttnacnaaaa attttnaaca gtntaaattg gggttntt
5587	W "N" or "Xaa" used: Feature required	gagananata natanatata t
5613	W "N" or "Xaa" used: Feature required	aggcacttga nttgaaaatg gaaaacccta ctgctggg
5614	W "N" or "Xaa" used: Feature required	tnatgcagcc ccagggtttt nttaatgctc aaatgggc
5617	W "N" or "Xaa" used: Feature required	agcagcaaac ccaggncttc agcccacctc ctaatgtg
5631	W "N" or "Xaa" used: Feature required	ctcatcttgt gacccgaagc cggcggcctt gncaggag
5661	W "N" or "Xaa" used: Feature required	ggacanngac tactctctct ctctctctct ctctctct
5662	W "N" or "Xaa" used: Feature required	tgctgctgct gctgccgntg tngncana
5694	W "N" or "Xaa" used: Feature required	tctcagcatg ggcttccagg gcagcgattg aggagacn
5695	W "N" or "Xaa" used: Feature required	agatgctgag acntcgtgac tccaggataa gaaacatt
5823	W "N" or "Xaa" used: Feature required	gaattcggca naggtgcaca gatgtgggtg atggggag
5824	W "N" or "Xaa" used: Feature required	ccctgtgtat tctgacgnet gagaaaggag catttcat
5826	W "N" or "Xaa" used: Feature required	aagaaacgga aagtngnagc cccccacacc acaggagc
5827	W "N" or "Xaa" used: Feature required	ttaccagcag cagcagcagc agcagcagca gcagcagc
5828	W "N" or "Xaa" used: Feature required	tcccaccacc aagtnccaca atttgggnna aaaccaag
5829	W "N" or "Xaa" used: Feature required	gatttnggca ttgtgggttg cttgcatgga aggacatt
5830	W "N" or "Xaa" used: Feature required	tacaattacc atttncggtt gtnaaggtta aanntccg
5831	W "N" or "Xaa" used: Feature required	ntttgaagtc catttg
5853	W "N" or "Xaa" used: Feature required	aacacttatc cttganagct ctgtttggga agcaggac
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5882	W "N" or "Xaa" used: Feature required	ggggtcatat ttctttcggc tagagagang aagcatga
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5958	W "N" or "Xaa" used: Feature required	nactgccagg gtcagacagt ccatttgctg ctgctgct
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6777	W "N" or "Xaa" used: Feature required	agcagcagct gctgcnnctt gctgcagctc gagaagca
6785	W "N" or "Xaa" used: Feature required	ctagcgnnmn gagcactcgc agggaactcc acaggcag
6887	W "N" or "Xaa" used: Feature required	Trp Ser Xaa Trp Ser
6905	W "N" or "Xaa" used: Feature required	Gly Cys Gln Xaa Arg
7000	W "N" or "Xaa" used: Feature required	ccccattttt catcttctac gatcagcact tttaccac
7017	W "N" or "Xaa" used: Feature required	ttgctgctct gcatgctaaa agtcacgtca ttaggaan
7018	W "N" or "Xaa" used: Feature required	ttggggggaa gaacctcgcc caggactgtc aggagctg
7019	W "N" or "Xaa" used: Feature required	ggccnngaag ctctgcangc gctccagggt ggcgatgg
7052	W "N" or "Xaa" used: Feature required	ctaaagtaca gtggttccat ggccaccctg gagcggct
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7078	W "N" or "Xaa" used: Feature required	ctccatgccg ttctnctc tttctaggga aaagcttc
7090	W "N" or "Xaa" used: Feature required	ctggacangt tgatgatagg gtctgncgcc ccataccc
7100	W "N" or "Xaa" used: Feature required	aacttctgca actggcagcg gcgtttcaac cagcccag
7101	W "N" or "Xaa" used: Feature required	gncacggcca tctnctcac cagacagaac tt
7210	W "N" or "Xaa" used: Feature required	agantnccga gacattaatg gacagcctgc ttccgagt
7214	W "N" or "Xaa" used: Feature required	cttttgcaca atggcagaat ncagttaagt ggtttaag

Input Set: I373658.RAW

Line	Error/Warning	Original Text
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7244	W "N" or "Xaa" used: Feature required	ttcgacctaa aattaaatac acctacttcg taaagang
7246	W "N" or "Xaa" used: Feature required	tgggttgga gagaagactg gtagaatgcc gagacatt
7247	W "N" or "Xaa" used: Feature required	gtgcaaagna agtgaagcca gccag
7284	W "N" or "Xaa" used: Feature required	ggatttaaaa cttcagattg ttccaaccng gaggggaa
7285	W "N" or "Xaa" used: Feature required	taaccggcaa tnggcctt
7298	W "N" or "Xaa" used: Feature required	aaatgggctt cctcttttcc tttttgggac cntct
7304	W "N" or "Xaa" used: Feature required	aatttgatag gatagttagt gaggnttatt aacctctg
7305	W "N" or "Xaa" used: Feature required	gccccgggca ttattattat tattnctttt gttacatc
7307	W "N" or "Xaa" used: Feature required	acttagtatn atgggggttg ggaaatgaaa agtaggag
7308	W "N" or "Xaa" used: Feature required	ctgttttact ttacctcact aacaatgggg ggagaaaag
7310	W "N" or "Xaa" used: Feature required	nttaaaactt cagattgttc
7328	W "N" or "Xaa" used: Feature required	gaaaagtagg aggaaagnng agnttttact aagacctg
7351	W "N" or "Xaa" used: Feature required	cgtgaggatt attaacctct gagcagtgat atagcata
7357	W "N" or "Xaa" used: Feature required	ttcaacctga gagaaaggct cagcaacgtg aaatnacg
7371	W "N" or "Xaa" used: Feature required	tgtttgatgg acaagctcag aatcccatac agntccca

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/373,658

DATE: 09/01/1999
TIME: 14:09:21

Input Set: I373658.RAW

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8 acagttgatg ataggggtctg ccgccccata ccctctcttc ttccccctta ggaatttggtg 180
9 cagtactgga ggggttgcg caatgggagg cctgggtggg ccgtgctgcc ttgatatggc 240
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16 ttggggggaa gaacctcgcc caggactgtc aggagctgca ctgtcagaag gctctgcnaa 660
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PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/373,658

DATE: 08/31/1999
TIME: 14:31:11

Input Set: I373658.RAW

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Information Section and those Sequences
containing ERRORS.

1 <110> Iruela-Arispe, Luisa
2 Hastings, Gregg A.
3 Ruben, Steven M.
4 Jonak, Zdenka L.
5 Trulli, Stephen H.
6 Fronwald, James A.
7 Terrett, Jonathan A.
8 <120> Meth1 and Meth2 Polynucleotides and Polypeptides
9 <130> 1488.1070006
10 <140> US/09/373,658
11 <141> 1999-08-13
12 <160> 125
13 <170> PatentIn Ver. 2.0

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES FOLLOW

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15 <211> 716
16 <212> cDNA
17 <213> Homo sapiens
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20 gcacttttac cttttaacct atgccctcta cttgaaccgc agcaaggtcc agtccactgg 120
21 acagttgatg atagggctctg ccgccccata ccctctcctc ttccccctta ggaatttggtg 180
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30 ggcccngaag ctctgcangc gctccagggg ggcgatggag ccgtgtactt caggat 716

PAGE: 2

VERIFICATION SUMMARY
PATENT APPLICATION US/09/373,658

DATE: 08/31/1999
TIME: 14:31:11

Input Set: I373658.RAW

Line ? Error/Warning

Original Text

16 E Wrong or missing Molecule Type

<212> CDNA